## 502811705 05/16/2014

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
YOUNG SEOG KIM	05/19/2010
KUOYUAN HSU	05/26/2010
JACKLYN CHANG	05/25/2010

#### **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. VI, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14279406

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: T5057-B074UB

NAME OF SUBMITTER: RANDY A. NORANBROCK

SIGNATURE: /Randy A. Noranbrock/

DATE SIGNED: 05/16/2014

**Total Attachments: 1** 

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PATENT REEL: 032909 FRAME: 0686

502811705

Docket No. T5057-B074U

## ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- 1) Young Seog KIM
- 2) Kuoyuan HSU
- 3) Jacklyn CHANG

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

# TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. having a place of business at

### No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

#### CONTENT ADDRESSABLE MEMORY DESIGN

(a)	for which an application for United States Letters Patent was filed on _ States Patent Application No. $\frac{12/788}{788}$ , 924; or	5-27-10	and	identified	bу	United
	States Patent Application No. $\frac{12/788,924}{}$ ; or				Ť	

(b) Tot which all appropriation for Officer States Faters Faterit was executed on	(p) 1	for which an application for United States Letters Patent was executed on
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and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Young Scog KIM 7

in all M.

Name: Jacklyn CHANG

5/19/2010

Date

Date

Date

PATENT REEL: 032909 FRAME: 0687

**RECORDED: 05/16/2014**